

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases, accidents, health risk behaviors such as drinking and smoking, hospitals, and health care personnel.

The major source for data on vital statistics and health is the Hawaii State Department of Health. Long-term trends are traced in *Historical Statistics of Hawaii*, Section 2. Sections 2 and 3 of the *Statistical Abstract of the United States: 2000* contain data for the nation as a whole.

Table 2.01-- BIRTHS AND DEATHS: 1980 TO 1999

Calendar year	Resident births 1/	Resident deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births 3/		
			Births	Deaths	To unmarried mothers	Fetal deaths 4/	Infant deaths 5/
1980	18,129	4,903	18.7	5.1	175.6	15.3	10.8
1981	18,174	4,927	18.6	5.0	181.8	13.1	10.5
1982	18,675	5,123	18.8	5.2	186.3	12.7	8.9
1983	19,090	5,409	18.8	5.3	197.8	11.4	10.0
1984	18,667	5,571	18.2	5.4	191.8	9.5	10.9
1985	18,267	5,751	17.6	5.5	201.3	9.7	9.1
1986	18,253	5,788	17.4	5.5	203.9	11.0	9.2
1987	18,555	6,149	17.4	5.8	213.7	9.2	8.8
1988	18,937	5,970	17.5	5.5	223.3	10.8	7.4
1989	19,335	6,381	17.7	5.8	239.0	9.9	8.4
1990	20,438	6,687	18.4	6.0	249.3	10.4	7.1
1991	19,880	6,696	17.6	5.9	262.5	10.5	7.0
1992	19,837	6,846	17.3	6.0	264.5	11.1	6.5
1993	19,567	7,226	16.8	6.2	273.0	11.7	7.6
1994	19,438	7,206	16.6	6.1	283.8	12.0	6.8
1995	18,552	7,482	15.7	6.3	291.8	12.1	5.9
1996	18,378	7,803	15.5	6.6	302.3	9.6	5.8
1997	17,326	7,710	14.6	6.5	299.0	8.5	6.4
1998	17,567	7,969	14.8	6.7	319.4	8.1	6.8
1999	17,032	8,125	14.4	6.9	328.4	10.8	7.1

1/ Events occurring in Hawaii. Data include births to military couples and deaths of armed forces and their dependents, but exclude nonresident births and deaths, as well as resident births and deaths occurring out of State.

2/ Based on July 1 estimates by the U.S. Census Bureau, as revised through Dec. 29, 1999.

3/ Place of occurrence basis.

4/ 20 weeks gestation and over. Includes elective abortions.

5/ Under 1 year of age.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and Office of Health Status Monitoring, records; Rates per 1,000 resident population calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.02-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1995 TO 1999

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1995	18,636	-	18,636	3,172	15,464	3,172
1996	18,451	-	18,451	3,132	15,319	3,132
1997	17,415	-	17,415	3,131	14,284	3,131
1998	17,628	-	17,628	3,011	14,617	3,011
1999	17,102	-	17,102	2,756	14,346	2,756
Deaths:						
1995	7,795	173	7,622	65	7,557	238
1996	8,148	185	7,963	77	7,886	262
1997	8,016	151	7,865	78	7,787	229
1998	8,297	175	8,122	85	8,037	260
1999	8,445	195	8,250	62	8,188	257
Birth rates: 2/						
1995	14.5	0	15.1	68.2	13.0	32.6
1996	14.3	0	14.8	56.6	12.9	30.3
1997	13.5	0	14.0	56.3	12.0	31.3
1998	13.3	0	13.8	49.7	12.0	28.5
1999	13.1	0	13.5	62.1	11.7	32.2
Death rates: 2/						
1995	6.1	3.4	6.2	1.4	6.4	2.4
1996	6.3	3.9	6.4	1.4	6.6	2.5
1997	6.2	3.4	6.3	1.4	6.6	2.3
1998	6.3	3.9	6.4	1.4	6.6	2.5
1999	6.5	4.7	6.5	1.4	6.7	3.0

1/ Death rates for military dependents based on 1990 age and sex composition of military dependents and 1990 age-sex-specific death rates for all civilians. Deaths of civilians other than military dependents calculated as residual.

2/ Per 1,000 de facto population in each group. Calculation of de facto population are based on July 1 estimates by the U.S. Census Bureau, as revised through Dec. 29, 1999.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; birth and death rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1994 TO 1999

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate 1/			
1994	26,457	22.5	19,438	1,265	5,754
1995	25,139	21.3	18,552	1,086	5,501
1996	24,234	20.5	18,378	985	4,871
1997	22,680	19.1	17,326	854	4,500
1998	22,794	19.1	17,567	1,084	4,143
1999	22,266	18.8	17,032	903	4,331

1/ Per 1,000 resident population, July 1. Based on population estimates by the U.S. Census Bureau, as revised through Dec. 29, 1999.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; Rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.04-- BIRTHS AND DEATHS, BY RESIDENCE: 1996 TO 1999

Event and year	Occurring in Hawaii				Persons born in or current residents of Hawaii 1/	
	Total	Resident	Non-resident	Not reported	Total	Out of State
Births:						
1996	18,451	18,378	69	4	18,396	18
1997	17,415	17,326	87	2	(NA)	(NA)
1998	17,628	17,567	61	-	(NA)	(NA)
1999	17,102	17,032	70	-	(NA)	(NA)
Deaths:						
1996	8,148	7,803	338	7	8,124	321
1997	8,016	7,710	303	3	(NA)	(NA)
1998	8,297	7,969	321	7	(NA)	(NA)
1999	8,445	8,125	307	13	(NA)	(NA)

NA Not available.

1/ Birth figures exclude mothers who were born in Hawaii but are now residents of another state.

Death figures include deaths of Hawaii residents occurring in Hawaii or in other states as well as Guam, Canada, and other foreign countries as well as deaths of persons born in Hawaii but who were residents of other states at the time of death. The death, however, must have been reported to the Hawaii Department of Health by the health department in the location that the death occurred.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1997 TO 1999

[Excludes births to Hawaii residents occurring out of state]

Subject	1997	1998	1999
Number of resident births	17,326	17,567	17,032
City and County of Honolulu	12,860	13,127	12,546
Percent on Oahu	74.2	74.7	73.7
Hawaii County	1,891	1,912	1,926
Kauai County	742	773	751
Maui County (incl. Kalawao)	1,833	1,755	1,809
Percent attended by M.D. or D.O. in hospital	94.6	1/ 94.9	95.3
Males per 100 females	106.0	104.8	107.5
Median weight of single births (grams)	3,295	3,310	3,315
Percent low birth weight (under 2,500 grams)	7.1	7.9	7.6
Percent single births under 40 weeks gestation	56.9	59.4	61.2
Percent plural	1.6	2.3	2.2
Percent with 1 or more congenital malformations	4.0	6.3	9.3
Percent to unmarried mothers	30.0	32.0	32.9
Percent with prenatal visit in first three months	81.3	81.0	82.4
Percent first child born to mother 2/	29.9	31.8	30.8
Percent first child born alive to mother	42.1	1/ 42.4	42.6
Median age of mothers (years)	27	27	27
Median age of known fathers (years)	30	30	30

1/ Revised.

2/ Includes live births, fetal deaths, and abortions.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.06-- CHILDREN EVER BORN PER 1,000 WOMEN 15 TO 44 YEARS OLD, BY GEOGRAPHIC AREA: 1990

Age of women	State total	Oahu	Other islands
Women 15 to 24 years	289	281	316
Women 25 to 34 years	1,199	1,132	1,423
Women 35 to 44 years	1,812	1,778	1,911

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 35.

Table 2.07-- BIRTH AND FERTILITY RATES FOR THE UNITED STATES AND HAWAII: 1998

[Excludes births to nonresidents of the United States]

Type of rate	United States	Hawaii	Rank of Hawaii 1/
Births per 1,000 population	14.6	14.7	2/ 16
Fertility rate 3/	65.6	69.6	9

1/ Among 50 States and D.C., highest rate ranking 1.

2/ Tied with the District of Columbia.

3/ Births per 1,000 women aged 15 to 44.

Source: U.S. Census Bureau, *Statistical Abstract of the United States: 2000*, p. 67.

Table 2.08-- RESIDENT BIRTHS, MIXED AND UNMIXED RACE, BY MILITARY STATUS OF PARENTS: 1999

Military status of parents	Total births	Unmixed	Mixed 1/	Not reported 2/	Percent mixed 3/
Total	17,032	6,782	9,256	994	57.7
Military	2,746	1,897	787	62	29.3
Civilian	12,708	4,859	7,830	19	61.7
Status not reported	1,578	26	639	913	96.1

1/ Includes all Part Hawaiian births, including those in which both parents were Part Hawaiian.

2/ One or both parents of unspecified race (unless one was Part Hawaiian) or both parents classified as "other".

3/ Based on number reporting.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.09-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES,
BY SEX: 1999**

A total of 7,361 first names, including variant spellings, was reported for the 17,102 babies born in Hawaii in 1999]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Joshua	129	Taylor	74
2	Noah	110	Kayla	68
3	Justin	92	Jasmine	56
4	Dylan (tie)	85	Ashley	52
5	Matthew (tie)	85	Alyssa (tie)	49
6	Tyler	84	Sarah (tie)	49
7	Isaiah (tie)	77	Emily	48
8	Michael (tie)	77	Jessica	42
9	Christopher	75	Lauren	41
10	Jacob	73	Nicole	39

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.10-- MOST COMMON SURNAMES ON BIRTH AND DEATH
CERTIFICATES: 1999**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	91	Lee	61
2	Smith	73	Wong	41
3	Kim	54	Chang	34
4	Johnson	52	Kim	32
5	Wong	46	Tanaka	30
6	Ramos (tie)	42	Oshiro	29
7	Young (tie)	42	Chun (tie)	28
8	Brown	40	Smith (tie)	28
9	Fernandez (tie)	39	Lum	25
10	Nguyen (tie)	39	Higa	24
	Williams (tie)	39		

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.11-- EXPECTATION OF LIFE AT BIRTH FOR BOTH SEXES
COMBINED, BY RACE: 1910 TO 1990**

[In years]

Year	All races	Caucasian	Chinese	Filipino	Hawaiian and Part- Hawaiian	Japanese	Other
1910	43.96	54.83	54.17	(NA)	32.58	49.34	15.62
1920	45.69	56.45	53.80	28.12	33.56	50.54	28.38
1930	53.95	61.90	60.07	46.14	41.87	60.07	32.58
1940	62.00	64.03	65.32	56.85	51.78	66.28	59.48
1950	69.53	69.21	69.74	69.05	62.45	72.58	68.29
1960	72.42	72.80	74.12	71.53	64.60	75.68	62.19
1970	74.20	73.24	76.11	72.61	67.62	77.44	76.74
1980	77.78	75.79	81.65	79.32	71.83	80.91	78.98
1990	78.85	75.53	82.93	78.94	74.27	82.06	80.37

NA Not available.

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1980," by Robert W. Gardner, *R & S Report*, No. 47, (March 1984), p. 7, and "Life Expectancy in the State of Hawai'i 1980 and 1990," *R & S Report*, No. 63 (August 1996), pp. 18-33.

Table 2.12-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1900 TO 1998

[Average expectation of life (e_0) in years]

Year	United States 1/			Hawaii		
	Both sexes	Male	Female	Both sexes	Male	Female
1900	47.3	46.3	48.3	(NA)	(NA)	(NA)
1910	50.0	48.4	51.8	43.96	44.04	43.83
1920	54.1	53.6	54.6	45.69	45.64	45.75
1930	59.7	58.1	61.6	53.95	52.70	55.86
1940	62.9	60.8	65.2	62.00	59.92	64.86
1950	68.2	65.6	71.1	69.53	67.77	71.67
1960	69.7	66.6	73.1	72.42	70.39	74.75
1970	70.8	67.1	74.7	74.20	72.12	76.44
1980	73.7	70.0	77.4	77.78	74.54	81.51
1990	75.4	71.8	78.8	78.85	75.90	82.06
1998	76.7	73.8	79.5	(NA)	(NA)	(NA)

NA Not available.

1/ 1910 and 1920 data are for the death-registration states only.

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, "United States Life Tables, 1998", *National Vital Statistics Reports*, Vol. 48, No. 18, Feb. 7, 2001, table 12; Hawaii State Department of Health, Office of Health Status Monitoring, "Life Tables by Ethnic Group for Hawaii, 1920-1970," *R & S Report*, No. 26 (June 1979), pp. 8-26; and "Life Expectancy in the State of Hawai'i, 1980 and 1990," *R & S Report*, No. 63 (August 1996), p. 9.

Table 2.13-- AVERAGE LIFETIME, BY SEX: 1959-61 TO 1989-91

Period	Years			Rank 1/		
	Both sexes	Male	Female	Both sexes	Male	Female
1959-1961	71.55	69.79	74.01	7	(NA)	(NA)
1969-1971	73.60	71.02	76.79	1	1	3
1979-1981	77.02	74.08	80.33	1	1	1
1989-1991 2/	78.21	75.37	81.26	1	1	1

NA Not available.

1/ Among the 50 states and D.C., with the highest average lifetime in years ranking 1.

2/ Average lifetime for all states combined was 75.37 years for both sexes combined, 71.83 years for males, and 78.81 years for females.

Source: U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, *Life Tables: 1959-61*, Vol. 2, No. 12, *Hawaii State Life Tables: 1959-61* (June 1966), p. 160, and unpublished tabulations; U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, *U.S. Decennial Life Tables for 1969-71*, Vol. II, No. 12, *Hawaii State Life Tables: 1969-71* (June 1975), p. 12-6; and U.S. Department of Health and Human Services, National Center for Health Statistics, *U.S. Decennial Life Tables for 1979-81*, Vol II, *State Life Tables*, No. 12, *Hawaii* (December 1985) p. 12-3, and *U.S. Decennial Life Tables for 1989-91*, Vol. II, *State Life Tables*, No. 12, *Hawaii* (March 1998), p. 4.

Table 2.14-- SELECTED LIFE TABLE VALUES: 1989-91

Exact age in years (x)	Average expectation of life in years (e_x)			Number surviving to specified age per 100,000 born alive (l_x)		
	Both sexes	Male	Female	Both sexes	Male	Female
0	78.21	75.37	81.26	100,000	100,000	100,000
1	77.80	75.01	80.78	99,253	99,154	99,358
5	73.95	71.18	76.92	99,053	98,925	99,189
15	64.12	61.37	67.06	98,817	98,647	98,997
25	54.53	51.89	57.32	98,128	97,739	98,570
35	45.04	42.58	47.59	97,132	96,291	98,063
45	35.74	33.49	38.06	95,418	93,989	96,982
55	26.98	24.93	29.06	91,637	89,354	94,067
65	18.98	17.31	20.66	83,847	79,600	88,093
75	12.01	10.88	13.07	68,406	61,075	76,007
85	6.55	5.71	7.07	40,617	32,940	49,596
95	3.29	2.92	3.40	8,840	5,002	12,652

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, *U.S. Decennial Life Tables for 1989-91*, Vol. II, *State Life Tables*, No. 12, *Hawaii* (March 1998), pp. 6-11.

Table 2.15-- CHARACTERISTICS OF RESIDENT DEATHS: 1997 TO 1999

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1997	1998	1999
Number of resident deaths	7,710	7,969	8,125
City and County of Honolulu	5,484	5,609	5,800
Hawaii County	1,052	1,123	1,105
Kauai County	419	418	449
Maui County (incl. Kalawao)	755	819	771
Males per 100 females	133.1	1/ 129.7	133.4
Median age (years)	75	76	76
Centenarian deaths: Male	14	11	16
Female	42	51	57
Oldest (years): Male	105	105	112
Female	110	108	110
Percent married	46.3	45.0	46.2
Deaths under 1 year	104	116	118
Per 1,000 live births	6.0	6.6	6.9
Fetal deaths 2/	5,354	5,227	5,234
Per 1,000 deliveries	236	229	235
Fetal deaths, 20 or more weeks gestation 3/	148	142	184
Per 1,000 live births	8.5	8.1	10.8
Standard fetal deaths 4/	854	1,084	903
Elective abortions	4,500	4,143	4,331
Per 1,000 live births	259.7	235.8	254.3

1/ Revised.

2/ Includes elective abortions.

3/ Place of occurrence basis. Includes elective abortions if 20 weeks or more.

4/ Excludes elective abortions.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.16-- CAUSE OF DEATH, BY SEX: 1999

[Place of residence basis. Method of coding "causes of death" changed to the International Classification of Diseases, Version 10]

Cause of death	Both sexes	Males	Females
Total deaths	8,125	4,644	3,481
HIV Disease	28	22	6
Malignant Neoplasm:	1,881	1,068	813
of Stomach	114	68	46
of Colon, Rectum and Anus	166	86	80
of Pancreas	133	65	68
of Trachea, Bronchus and Lung	450	283	167
of the Female Breast	135	-	135
of Cervix Uteri, Corpus Uteri and Ovary	59	-	59
of Prostate	117	117	-
of Urinary Tract	78	55	23
Non-Hodgkin's Lymphoma	91	57	34
Leukemia	57	36	21
Other Malignant Neoplasms	481	301	180
Diabetes Mellitus	209	111	98
Alzheimer's Disease	108	39	69
Diseases of the Heart	2,364	1,411	953
Hypertensive Heart Disease	73	39	34
Ischemic Heart Disease	1,452	900	552
Other Forms of Heart Disease	839	472	367
Hypertension	80	34	46
Cerebrovascular Disease	746	387	359
Atherosclerosis	32	17	15
Other Circulatory System Diseases	99	60	39
Influenza/Pneumonia	227	138	89
Chronic Lower Respiratory Diseases	286	168	118
Peptic Ulcer	15	7	8
Chronic Liver Disease and Cirrhosis	70	46	24
Nephritis and Nephrosis	132	74	58
Perinatal Conditions	58	28	30
Congenital Anomalies	35	19	16
Symptoms and Ill-Defined Conditions	53	25	28
Other Diseases 1/	1,199	635	564
Motor Vehicle Accidents	81	56	25
All Other and Unspecified Accidents and adverse effects	215	143	72
Intentional Self-Harm (Suicide)	132	104	28
Assault (Homicide)	38	27	11
All Other External Causes	37	25	12

1/ Includes Tuberculosis, Sudden Infant Death Syndrome, and Complications of Pregnancy, Childbirth and Puerperium

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.17-- GREATEST CATASTROPHIC MORTALITY OF RECORD,
BY TYPE OF DISASTER: 1778 TO 2001**

[Complete through June 15, 2001]

Type of disaster	Date	Location	Event	Deaths
Aircraft	Mar. 22, 1955	Waianae Mts.	Crash of MATS R6-D	66
Asphyxiation	Oct. 19, 1937	Palama	Leaking gas in house	8
Construction	Mar. 25, 1930	Kauai	Collapse of Alexander Dam	6
Earthquake	Apr. 2, 1868	Ka'u; Puna	Earthquake	32
Explosion	May 21, 1944	West Loch	Explosions on 9 Navy ships loading ammunition	163
Fire	June 8, 1944	Kalihi	Colliding bombers set fire to houses 1/	10
	Oct. 15, 1997	Palolo	Fire destroyed 3 houses	7
Flood	Jan. 18, 1916	Iao; Wailuku	Cloudburst and flood	14
Homicide	Nov. 2, 1999	Iwilei	Mass murder in office	7
Hurricane	Sept. 11, 1992	Kauai; Oahu	Hurricane Iniki	8
Landslide	May 9, 1999	Sacred Falls	Landslide	8
Marine	1829 or 1830	New Hebrides	Losses to Boki's ships 2/	410
Motor vehicle	July 2, 1944	Waialua	Truck overturned on pedestrians	7
	July 5, 1969	Kamehameha Hwy at Puuloa	2-car accident	7
Railroad	June 26, 1916	Near Hana	Work train derailed	5
Tsunami	Apr. 1, 1946	Statewide	Tsunami	159
Volcano	Nov. 1790	Kilauea	Eruption killed soldiers	80 or 400
War, riots, etc.	Dec. 7, 1941	Oahu	Pearl Harbor attack	2,500
	Jan. 1790	Olowalu	U.S. ship fired on native canoes	> 100
	Sept. 9, 1924	Hanapepe	Police fired on strikers	20

1/ Death toll in burning houses; in addition, 4 airmen perished.

2/ Of Boki's two-ship expedition to New Hebrides, the *Kamehameha* and its crew of 250 vanished; the *Becket* survived but lost 160 of its crew.

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. 3 (1969), pp. 66-86, and "Catastrophic Mortality in Hawaii: An Update," *The Hawaiian Journal of History*, Vol. 23 (1989), pp. 217-227; *Data Book 1998*, table 2.17, as updated.

Table 2.18-- CATASTROPHIC MORTALITY: 1991 TO 2001

[Includes all accidents, natural disasters, and other events causing five or more deaths.
Complete through Feb. 14, 2001]

Date	Place	Kind of disaster	Deaths
1991: Aug. 25-26	Waipahu and Kailua	Murder spree	5
1992: Jan. 14	Between Oahu and Maui	Airplane disappearance	5
Apr. 22	Haleakala summit, Maui	Airplane crash	9
Sept. 11	Kauai and Oahu	Hurricane Iniki	8
Sept. 16	Haleakala slope, Maui	Helicopter crash	7
1994: Jan. 21	Keawaula Bay, Oahu	1-car auto crash	5
1995: Nov. 10	Kuliouou, Oahu	1-car auto crash	5
1996: Nov. 1	Halawa, Molokai	Airplane crash	5
1997: Oct. 15	Palolo Valley, Honolulu	3 houses destroyed by fire	7
1998: June 25	Waialeale Crater, Kauai	Helicopter crash	6
1999: May 9	Sacred Falls, Oahu	Landslide	8
Sept. 25	Mauna Loa slope, Hawaii	Airplane crash	10
Nov. 2	Iwilei, Honolulu	Mass murder in office	7
2000: July 21	Iao Valley, Maui	Helicopter crash	7
2001: Feb. 9	9 mi. south of Diamond Head	Surfacing submarine hit and sank Japanese training ship	9
Feb. 12	Mts. near Sunset Beach, Oahu	Crash of two Army helicopters	6

Source: Hawaii State Department of Business, Economic Development & Tourism file of newspaper accounts.

Table 2.19-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1970 TO 1999

Method	1970	1980	1990	1997	1998	1999
All methods	4,197	5,204	7,055	8,016	8,297	8,445
Burial	2,197	2,343	2,798	2,811	2,855	2,785
Cremation	1,509	2,241	3,564	4,616	4,807	5,027
Removal	470	567	656	548	580	569
Entombment	13	44	35	20	16	17
Medical science	3	-	-	20	38	46
Other	-	1	-	-	-	-
Unknown	5	8	2	1	1	1

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.20-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1996 TO 2000**

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1996: June 30	2,509	1,873	285	109	242
1997: June 30	2,559	1,919	277	114	249
1998: June 30	2,600	1,974	287	112	227
1999: June 30	2,623	1,977	297	118	231
2000: June 30	2,691	2,029	311	116	235

Source: Hawaii State Department of Human Services, Services for the Blind Branch, records.

Table 2.21-- SELECTED CHRONIC CONDITIONS: 1998 AND 1999

[Provisional data. Based on a sample survey of 4,382 households with 12,923 persons in 1998, and based on a sample survey of 4,351 households with 12,677 persons in 1999]

Selected chronic conditions	Prevalence of condition		Conditions per 1,000 persons 1/	
	1998	1999	1998	1999
Diabetes	52,997	48,720	46	42
Hypertension	149,466	154,660	130	134
High blood cholesterol	144,026	152,812	125	133
Asthma	102,533	107,369	89	93
Arthritis	84,301	82,452	73	72

1/ Population base includes persons under 18 years, not usually subject to some of these conditions.

Source: Hawaii State Department of Health, Hawaii Health Survey, special tabulation.

Table 2.22-- SPECIFIED COMMUNICABLE DISEASES: 1995 TO 1999

[1999 data reported as of January 2001; earlier data not updated]

Disease	1995	1996	1997	1998	1999
Cases:					
AIDS	222	192	98	163	103
Campylobacteriosis	699	854	823	622	884
E. coli 0157:H7	17	8	11	19	15
Fish poisoning 1/	129	43	92	111	84
Giardiasis	182	229	162	123	117
Gonorrhea	565	501	507	469	463
Hansen's Disease 2/	19	15	26	19	22
Hepatitis A	166	120	148	54	24
Hepatitis B (Acute)	32	14	11	18	16
Influenza	255	129	3/ 1,051	4/ 1,290	5/ 985
Leptospirosis 6/	23	42	60	46	52
Malaria 7/	12	12	13	9	12
Measles (Rubeola) 7/	3	51	6	1	2
Meningitis, bacterial 8/	5	8	7	5	10
Mumps	14	31	27	9/ 26	10/ 16
Pertussis (whooping cough)	65	35	19	11/ 26	12/ 51
Pneumococcal disease	110	98	52	81	61
Rubella 7/	5	3	9	2	0
Salmonellosis	303	428	387	295	338
Shigellosis	102	87	65	51	35
Syphilis (Primary & Secondary)	-	4	1	1	3
Tuberculosis	193	200	167	181	184
Deaths: 13/					
AIDS	130	73	38	23	28
Hansen's Disease 3/	-	-	-	-	-
Hepatitis A	-	1	-	-	<5
Hepatitis B (Acute)	8	11	11	7	7
Influenza	<5	<5	<5	10	6
Pneumococcal disease	<5	<5	-	<5	<5
Salmonellosis	<5	<5	-	-	<5
Tuberculosis	6	5	10	<5	<5
Meningitis, bacterial	-	-	-	<5	-
Shigellosis	-	-	-	<5	-

Footnotes and source on next page.

Table 2.22--SPECIFIED COMMUNICABLE DISEASES: 1995 TO 1999 -- Cont.

- 1/ Scombroid, ciguatera and hallucinogenic fish poisoning.
- 2/ Excludes reinstated cases.
- 3/ Of the 1,051 reported cases, 252 cases were confirmed illnesses and 799 were influenza-like illnesses.
- 4/ Of the 1,290 reported cases, 205 cases were confirmed illnesses and 1,085 were influenza-like illnesses.
- 5/ Of the 985 reported cases, 311 cases were confirmed illnesses and 674 were influenza-like illnesses.
- 6/ Includes previously unreported cases.
- 7/ Acquired outside the State.
- 8/ Category changed from "meningitis, all types" to "meningitis, bacterial". Viral meningitis is no longer reported.
- 9/ Of the 26 cases, 7 were lab confirmed and 19 were clinically diagnosed.
- 10/ Of the 16 cases, 13 were lab confirmed and 3 were clinically diagnosed.
- 11/ Of the 26 cases, 20 were confirmed and 6 probable.
- 12/ Of the 51 cases, 23 were lab confirmed and 28 were clinically diagnosed.
- 13/ Resident data. For the years shown, no deaths were reported from campylobacteriosis, fish poisoning, giardiasis, gonorrhea, leptospirosis, malaria, measles (rubeola), mumps, pertussis, rubella, or syphilis. No data were available for deaths caused by E. coli 0157:H7.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Epidemiology Branch, and AIDS Surveillance Program, records.

Table 2.23-- STATE EXPENDITURES ON SUBSTANCE ABUSE: 1998

Subject	State spending (mil. dol.)	Spending related to substance abuse	
		Amount (mil. dol.)	Per capita (dollars)
Total State budget	5,100
Substance abuse	438
Affected programs	3,523	429	361
Justice	180	148	124
Education (elementary, secondary)	710	83	70
Health	308	78	66
Child and family assistance	174	49	41
Mental health, developmentally disabled	134	63	53
Public safety	4	1	1
State workforce	2,014	7	6
Regulation and compliance	0.09	0.09	0.1
Prevention, treatment, and research	9	9	7
Total 1/	438	438	368

1/ The national expenditure by states was \$81.3 billion, or \$299 per capita. The Hawaii per capita expenditure (\$368) ranked seventh among the 47 states providing data.

Source: National Center on Addiction and Substance Abuse, Columbia University, as reported in <http://starbulletin.com/2001/01/29/news/story3.html>.

**Table 2.24-- HEALTH RISK BEHAVIORS AND CONDITIONS FOR
PERSONS 18 YEARS AND OLDER: 1996 TO 1999**

[Weighted percent of adults who reported the health risk behaviors or conditions]

Risk factor 1/	1996	1997	1998	1999
Seatbelt non-use	(NA)	12.8	(NA)	(NA)
Acute drinking 2/	(NA)	17.1	(NA)	14.0
Chronic drinking 3/	(NA)	5.0	(NA)	5.2
Drinking and driving	(NA)	2.4	(NA)	2.3
High cholesterol	(NA)	31.5	(NA)	27.6
Hypertension	(NA)	23.9	(NA)	22.7
Lack of exercise 4/	71.9	(NA)	69.7	66.7
Poor nutrition 5/	74.9	(NA)	72.5	(NA)
Diabetes	4.6	5.0	5.6	5.2
Current smokers 6/	22.2	18.7	19.5	18.5
Overweight 7/	23.9	26.6	27.8	28.8

NA Not available.

1/ Certain risk factor data are collected only on alternating years.

2/ Five or more alcoholic beverages on at least one occasion, in the past month.

3/ Sixty or more alcoholic beverages in the past month.

4/ No regular and sustained physical activity. Regular activity is any physical activity or pair of activities done for a total of 20 or more minutes three or more times per week during the past month, but less than 50 percent of functional capacity.

5/ Less than five fruits and vegetables a day.

6/ Listed as "cigarette smoking" in previous *Data Book* tables.

7/ Body mass index (BMI) greater than or equal to 27.3 for females; body mass index greater than or equal to 27.8 for males.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Behavioral Risk Factor Surveillance System (BRFSS) at <http://www.hawaii.gov/health/stats/surveys/brfss.html> and records.

Table 2.25-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1994 TO 1999

Category and year	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
Number of facilities:						
1994 4/	73	23	41	29	489	12
1995 4/	74	23	42	29	499	12
1996 4/	71	23	42	26	523	12
1997	76	24	43	30	521	11
1998	76	24	45	28	530	12
1999	77	24	47	28	538	13
Number of licensed beds: 5/						
1994 4/	7,130	2,600	3,492	1,038	2,216	407
1995 4/	7,130	2,642	3,504	984	2,274	393
1996 4/	7,433	2,633	3,814	986	2,403	393
1997	7,611	2,654	3,827	1,130	2,410	349
1998	7,847	2,619	4,063	1,165	2,463	363
1999	7,681	2,616	4,000	1,065	2,509	365

1/ Institutions providing more than one kind of care are only counted once.

2/ Five beds or fewer.

3/ Six beds or more.

4/ Additional specialty care facilities were added to the survey.

5/ For hospitals only, number of beds licensed by the State Department of Health's Office of Health Care Assurance. "Number of beds" in the State of Hawaii Data Book 1996 and earlier referred to the number of beds with Certificate of Need approval. Certificate of Need approved beds included beds completed and beds being developed (not yet in service).

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1994* (September 1995); State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1995* (March 1997); State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data* (June 1997); State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1997 Data* (July 1998); State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* (August 1999); State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1999 Data* (September 2000); and Office of Health Care Assurance, records.

Table 2.26-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1994 TO 1999

[Excludes Tripler Army Medical Center]

Type of facility and year	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:				
1994	101,057	1,849	6.7	71.2
1995	101,001	1,802	6.5	68.2
1996	100,519	1,689	6.1	64.2
1997	100,353	1,715	6.2	64.5
1998	103,795	1,620	5.7	61.9
1999	100,105	1,641	6.0	62.7
Long-term care:				
1994	3,149	3,413	395	97.8
1995	3,577	3,308	335	94.4
1996	4,577	3,520	279	92.3
1997	5,098	3,472	247	90.7
1998	5,789	3,675	232	90.5
1999	5,866	3,721	232	93.0

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1994* (September 1995); State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1995* (March 1997); State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data* (June 1997); State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1997 Data* (July 1998); State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* (August 1999); State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1999 Data* (September 2000); and records.

Table 2.27-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1999

[Facilities recognized by the Hawaii State Health Planning and Development Agency.
Excludes Tripler Army Medical Center]

Category and island	Hospitals			Care homes		
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
NUMBER OF FACILITIES						
State total	77	24	47	28	538	13
Oahu	53	11	29	21	448	11
Hawaii	10	6	9	1	55	-
Kauai	5	3	5	1	17	2
Maui	6	2	2	4	13	-
Molokai	2	1	1	1	5	-
Lanai	1	1	1	-	-	-
NUMBER OF LICENSED BEDS 4/						
State total	7,681	2,616	4,000	1,065	2,509	365
Oahu	5,549	2,050	2,523	976	2,117	308
Hawaii	939	250	689	-	240	-
Kauai	404	108	296	-	67	57
Maui	731	196	460	75	61	-
Molokai	44	8	22	14	24	-
Lanai	14	4	10	-	-	-

1/ Institutions providing more than one kind of care are counted only once. Total for number of licensed beds pertains only to hospitals. Care home beds are not licensed by the Department of Health.

2/ Five beds or fewer.

3/ More than five beds.

4/ For hospitals only, number of beds licensed by the State Department of Health's Office of Health Care Assurance. "Number of beds" in the *State of Hawaii Data Book 1996* and earlier referred to the number of beds with Certificate of Need approval. Certificate of Need approved beds included beds completed and beds being developed (not yet in service).

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1999 Data* (September 2000) and the Office of Health Care Assurance, records.

Table 2.28-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1999

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	100,105	1,641	6.0	62.7
Oahu	72,898	1,306	6.5	63.7
Hawaii	12,110	135	4.1	54.0
Kauai	5,005	52	3.8	47.8
Maui	9,866	147	5.4	74.9
Molokai	182	1	2.1	12.9
Lanai	44	1	1.0	3.0
LONG-TERM CARE				
State total	5,866	3,721	232	93.0
Oahu	3,789	2,339	225	92.7
Hawaii	887	656	270	95.2
Kauai	605	278	168	94.1
Maui	434	424	356	92.1
Molokai	139	16	41	70.6
Lanai	12	8	233	76.6

Source: Hawaii State Department of Health, State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1999 Data* (September 2000).

Table 2.29-- ADULT PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1990 TO 2000

[On July 1, 1993, the Adult Mental Health Division changed the criteria by which eligibility for service was determined and focused on a priority population of "seriously and persistently mentally ill adults". Prior to that, the division served any person with any mental illness seeking service]

Facilities and year	Persons active, Dec. 31	Admissions	Discharges	Persons served
Hawaii State Hospital:				
1990 1/	193	738	765	958
1991 1/	159	311	345	504
1992	198	394	355	553
1993	195	446	449	644
1994	199	275	271	470
1995 2/	172	107	123	295
1996	164	102	110	274
1997	163	100	101	264
1998 3/	164	141	139	283
1999	144	123	146	272
2000	164	154	141	283
State-supported outpatient community mental health centers:				
1990	2,505	1,764	1,628	4,133
1991	3,037	2,494	1,962	4,999
1992	3,509	2,182	1,710	5,219
1993	3,410	2,004	2,103	5,513
1994	3,246	1,692	1,856	5,102
1995	2,798	804	866	3,664
1996	2,867	818	749	3,616
1997	3,024	804	647	3,671
1998 3/	3,232	816	794	3,958
1999	3,168	1,281	951	4,009
2000	3,039	1,062	1,185	3,985

1/ Figures include children and adolescents who were part of Hawaii State Hospital up until the end of June 1991.

2/ Prior to 1995, a patient's administrative leave for treatment at a facility outside Hawaii State Hospital was counted as a discharge when the patient left, then counted as an admission when the patient returned to the Hawaii State Hospital. From 1995, this type of patient leave was handled as an internal transfer.

3/ Revised.

Source: Hawaii State Department of Health, Adult Mental Health Division, records.

**Table 2.30-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1996 TO 2000**

Year	Number of beds, June 30 1/	Admissions 2/		Patients in hospital 4/	
		Total	First 3/	Average 2/	June 30
1996	202	89	87	170	167
1997	202	101	100	164	168
1998	202	113	106	164	163
1999	202	132	115	164	162
2000	168	137	117	151	149

1/ Number of licensed beds. The number of beds available for use, however, is dependent upon the staff/patient ratio.

2/ Year ended June 30.

3/ Admissions in which a person has entered the facility for the first time during the fiscal year that data are being collected for.

4/ Includes patients on leave and absent without leave. In 2000, about .2% of the patients were on leave or absent without leave.

Source: Hawaii State Hospital, records.

Table 2.31-- HANSEN'S DISEASE PATIENTS REGISTERED: 1995 TO 1999

Subject	1995	1996	1997	1998	1999
Patients on register, Dec. 31	390	365	357	346	320
Department of Health's Hansen's Disease					
Community Program 1/	320	301	297	293	270
Kalaupapa	68	64	60	53	50
Hale Mohalu at Leahi	2	-	-	-	-
New cases	19	15	26	19	22
Deaths	15	11	6	13	6

1/ Previously categorized as "at home". Patients are registered to this community program, but reside at home.

Source: Hawaii State Department of Health, Hansen's Disease Community Program, records.

**Table 2.32-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS
LICENSED IN HAWAII, BY PLACE OF ADDRESS: JULY 14, 2000**

[Excludes inactive licenses]

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	5,481	1,326	11,899	1,370
Hawaii addresses	3,044	999	9,501	794
Hawaii	278	95	1,004	76
Maui	233	70	853	63
Lanai	2	-	11	-
Molokai	6	3	35	2
Oahu	2,414	791	7,191	616
Kauai	111	40	407	39
Mainland U.S.	2,384	313	2,239	569
Foreign	53	14	159	7

1/ Permanent licenses only. Does not include interns, residents, or physicians who provided State government services only.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, records.

**Table 2.33-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS
WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997**

[Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in earlier Economic Censuses. Therefore, comparability between the 1992 and the 1997 data may be limited]

NAICS code	Kind of business or operation	Establishments (number)	Receipts/revenues (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
	Firms subject to federal income tax				
62	Health care and social assistance	2,360	1,646,255	730,786	18,221
621	Ambulatory health care services 1/	2,249	1,356,713	586,581	13,828
6211	Offices of physicians	1,076	731,276	359,150	6,125
6212	Offices of dentists	657	267,597	101,463	3,266
6213	Offices of other health practitioners	380	96,062	31,945	1,359
6214	Outpatient care centers	47	58,253	22,090	501
6215	Medical and diagnostic laboratories	42	139,451	45,210	1,264
6216	Home health care services	31	30,749	13,304	924
6219	Other ambulatory health care services	16	33,325	13,419	389
622	Hospitals	1	(D)	(D)	(g)
623	Nursing and residential care facilities	37	118,739	53,915	2,121
6231	Nursing care facilities	21	113,137	51,993	2,001
6232	Residential mental retardation/health and substance abuse facility	7	(D)	(D)	(b)
6233	Community care facilities for the elderly	8	3,087	1,047	79
6239	Other residential care facilities	1	(D)	(D)	(a)
624	Social assistance	73	(D)	(D)	(f)
6241	Individual and family services	23	(D)	(D)	(c)
6242	Community food and housing/emergency and other relief services	2	(D)	(D)	(a)
6243	Vocational rehabilitation services	13	13,465	6,546	251
6244	Child day care services	35	(D)	(D)	(c)
	Firms exempt from federal income tax				
62	Health care and social assistance	581	2,329,058	886,904	29,344
621	Ambulatory health care services 1/	73	477,944	113,921	3,172
6214	Outpatient care centers	56	433,619	93,420	2,318

Continued on next page.

Table 2.33-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997--Con.

NAICS code	Kind of business or operation	Establishments (number)	Receipts/Revenues (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
	Firms exempt from federal income tax (cont.)				
6216	Home health care services	13	33,353	15,892	703
6219	Other ambulatory health care services	4	10,972	4,609	151
622	Hospitals	28	1,527,862	624,708	17,876
6221	General medical and surgical hospitals	21	1,259,785	509,759	14,515
6222	Psychiatric and substance abuse hospitals	3	62,694	36,738	1,053
6223	Specialty (except psychiatric and substance abuse) hospitals	4	205,383	78,211	2,308
623	Nursing and residential care facilities	42	84,959	38,336	1,884
6231	Nursing care facilities	6	44,051	19,475	816
6232	Residential mental retardation/health and substance abuse facility	21	22,439	10,518	613
6233	Community care facilities for the elderly	4	11,448	5,127	264
6239	Other residential care facilities	11	7,021	3,216	191
624	Social assistance	438	238,293	109,939	6,412
6241	Individual and family services	226	138,787	68,864	3,622
6242	Community food and housing/emergency and other relief services	56	36,331	11,303	651
6243	Vocational rehabilitation services	18	18,219	8,382	567
6244	Child day care services	138	44,956	21,390	1,572

D Withheld to avoid disclosing data of individual companies.

a 0 to 19 employees.

b 20 to 99 employees.

c 100 to 249 employees.

f 500 to 999 employees.

g 1,000 to 2,499 employees.

1/ The ambulatory health care services subsector includes industries that provide health care services directly or indirectly to ambulatory patients and do not usually provide inpatient services. Health practitioners provide outpatient services, with the facilities and equipment not usually being the most significant part of the production process.

Source: U.S. Census Bureau, *1997 Economic Census, Health Care and Social Assistance, Geographic Area Series, Hawaii*, EC97S62A-HI (June 1999), table 1a and 1b.

**Table 2.34-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS
WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR
COUNTIES AND SELECTED URBAN PLACES: 1997**

Geographic area	Establishments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
State total	2,360	1,646,255	730,786	18,221
Hawaii County	321	224,838	76,168	2,441
Hilo	180	155,372	53,922	1,643
Kailua	48	20,531	8,061	323
Honolulu County	1,730	1,231,679	563,133	13,474
Aiea	63	32,176	12,175	324
Ewa Beach	18	8,586	3,823	91
Honolulu	1,194	925,469	427,398	9,866
Kailua	108	44,072	20,820	526
Kaneohe	63	37,576	16,272	587
Laie	3	987	356	8
Maunawili	6	3,289	1,449	29
Mililani Town	25	15,627	7,193	169
Pearl City	29	26,382	9,086	296
Wahiawa	35	20,900	8,593	253
Waianae	10	4,600	1,810	67
Waimalu	66	49,106	25,257	463
Waipahu	53	22,729	10,152	239
Waipio	5	1,425	597	18
Kauai County	79	51,361	27,610	745
Kalaheo	4	2,202	813	23
Kapaa	13	4,199	1,917	75
Lihue	42	36,828	20,221	478
Maui County	230	138,377	63,875	1,561
Haiku-Pauwela	4	515	325	3
Kahului	60	29,376	12,446	355
Kaunakakai	5	1,220	329	36
Kihei	23	9,386	3,327	132
Lahaina	17	8,516	4,949	106
Makawao	9	1,704	595	30
Pukalani	9	3,552	1,127	50
Wailea-Makena	3	686	345	3
Wailuku	82	77,680	38,055	735

Source: U.S. Census Bureau, *1997 Economic Census, Health Care and Social Assistance, Geographic Area Series*, EC97S62A-HI (June 1999), table 1a, 3, and 4.

Table 2.35-- MARRIAGES AND DIVORCES: 1980 TO 1999

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population 3/		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 4/	Inter-racial 5/
1980	11,856	9,442	4,438	9.7	4.6	20.4	44.4
1981	12,218	9,445	4,253	9.7	4.3	22.7	44.5
1982	13,483	10,053	4,233	10.1	4.3	25.4	45.0
1983	14,062	10,216	4,583	10.1	4.5	27.3	45.5
1984	14,982	10,020	4,769	9.7	4.6	33.3	46.3
1985	15,421	9,893	4,887	9.5	4.7	35.8	46.9
1986	16,219	9,571	4,674	9.1	4.4	30.4	46.5
1987	16,567	9,714	4,419	9.1	4.1	41.3	44.6
1988	17,281	9,708	5,020	9.0	4.6	43.8	42.9
1989	17,974	9,952	5,613	9.1	5.1	44.6	44.3
1990	18,306	10,407	5,179	9.4	4.7	43.1	45.9
1991	17,764	10,051	5,184	8.9	4.6	43.4	43.9
1992	17,725	10,049	5,040	8.7	4.4	43.3	44.3
1993	17,252	9,744	4,888	8.4	4.2	43.5	44.1
1994	18,118	9,317	4,993	7.9	4.3	48.6	44.5
1995	18,669	9,277	5,505	7.9	4.7	50.3	45.0
1996	19,589	9,003	4,903	7.6	4.1	54.0	45.6
1997	19,901	8,878	4,877	7.5	4.1	55.5	44.8
1998	20,974	6/ 8,746	4,914	7/ 7.3	4.1	58.3	46.3
1999	23,067	9,222	4,620	7.8	3.9	60.0	44.2

1/ One or both partners residents of Hawaii.

2/ Final decrees only.

3/ Based on July 1 estimates by the U.S. Census Bureau, as revised through Dec. 29, 1999.

4/ Both partners nonresidents of Hawaii.

5/ Excludes nonresident marriages. Also, for these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

6/ Revised.

7/ Change due to revision in the population estimate.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; Rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 2.36-- MARRIAGE AND DIVORCE RATES BASED ON RISK
POPULATION: 1910 TO 1990**

Census year	Females 15 years old and over 1/		Marriages 2/		Divorces 2/	
	Unmarried 3/	Married 4/	Number	Rate 5/	Number	Rate 6/
1910	9,667	31,380	2,112	218	210	7
1920	14,616	45,550	2,070	142	548	12
1930	26,059	53,948	2,504	96	546	10
1940	51,669	66,569	4,659	90	906	14
1950	58,995	94,520	5,446	92	1,112	12
1960	65,156	128,528	5,098	78	1,324	10
1970	98,016	166,596	7,312	75	2,452	15
1980	150,166	210,085	9,148	61	4,144	20
1990	183,984	244,799	10,180	55	5,396	22

1/ Females 14 years old and over for 1940-1970.

2/ Annual averages for two-year periods centering on each census date. Place of occurrence basis.

Marriage data for 1969-1970 and later years exclude nonresident marriages.

3/ Single, widowed or divorced.

4/ Includes separated persons.

5/ Per 1,000 unmarried females 15 (or 14) years old and over.

6/ Per 1,000 married females 15 (or 14) years old and over.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 214-215 and underlying data; *U.S. Census of Population: 1970*, Final Report PC (1)-B13, table 22; *U.S. Census of Population: 1980*, PC80-1-B13, table 21; Hawaii State Data Center, 1990 census tapes; Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1969, 1970, 1979, 1980, and records.

**Table 2.37-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1996 TO 1999**

[Place of occurrence basis]

Subject	1996	1997	1998	1999
MARRIAGES				
Number	19,589	19,901	20,974	23,067
Percent on Oahu	49.0	46.5	45.7	44.4
Percent Hawaii residents:				
Both bride and groom	42.4	41.3	38.2	36.7
One partner only	3.5	3.2	3.5	3.2
Neither bride nor groom	54.0	55.5	58.3	60.0
Median age (years):				
Groom	32	32	33	33
Bride	30	30	30	30
Percent previously married:				
Groom	38.8	39.1	38.8	39.0
Bride	38.8	39.8	39.5	39.6
DIVORCES AND ANNULMENTS				
Number	4,903	4,877	1/ 4,919	4,620
Divorces	4,883	4,858	1/ 4,899	4,611
Annulments	20	17	17	5
Not reported	-	2	3	4
Percent occurring on Oahu	73.9	74.3	73.9	72.7
Percent Hawaii residents:				
Both partners	76.0	75.7	74.3	74.7
One partner only	23.0	23.4	24.4	23.6
Neither partner	<0.1	0.1	<0.1	<0.1
Not reported 2/	0.9	0.8	1.3	1.7
Median age (years):				
Husband	37	37	37	38
Wife	35	34	35	36
Percent interracial 3/	41.5	43.2	1/ 42.4	43.7
Percent with children under 18 years	50.9	50.1	49.5	51.8
Median years married	6.8	6.7	6.8	7.2

1/ Revised.

2/ Couples where the residence of one or more partners is unknown.

3/ For these calculations, divorces where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records.

Table 2.38-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1999

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents	Residence unknown
All marriages	23,067	9,222	13,845	-
Race of partners:				
Both partners same race 1/	17,085	5,063	12,022	-
Different	5,982	4,159	1,823	-
Percent different	25.9	45.1	13.2	(X)
Type of ceremony:				
Civil ceremony	3,150	2,535	615	-
Religious ceremony	19,916	6,687	13,229	-
Unknown	1	-	1	-

X Not applicable.

1/ Includes marriages with both partners of unknown race.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.39-- MARITAL DISSOLUTION: 1980 TO 1999

[Based on resident population]

Subject	1980	1990	1998 1/	1999	Percent	
					1980	1990
Married couples	185,698	210,468	(NA)	(NA)	100.0	100.0
Marriages ended	6,782	8,292	8,501	8,370	3.7	3.9
By divorce 2/	4,438	5,172	4,918	4,618	2.4	2.5
By death	2,344	3,120	3,583	3,752	1.3	1.5
Husbands	1,678	2,234	2,571	2,736	0.9	1.1
Wives	666	886	1,012	1,016	0.4	0.4

NA Not applicable.

1/ Revised.

2/ Includes divorces where only one partner is a resident of Hawaii.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; U.S. Bureau of the Census, *1980 Census of Population*, PC80-1-B13, table 21, and *1990 Census of Population*, 1990 CP-1-13, table 30.